

Fig. 1

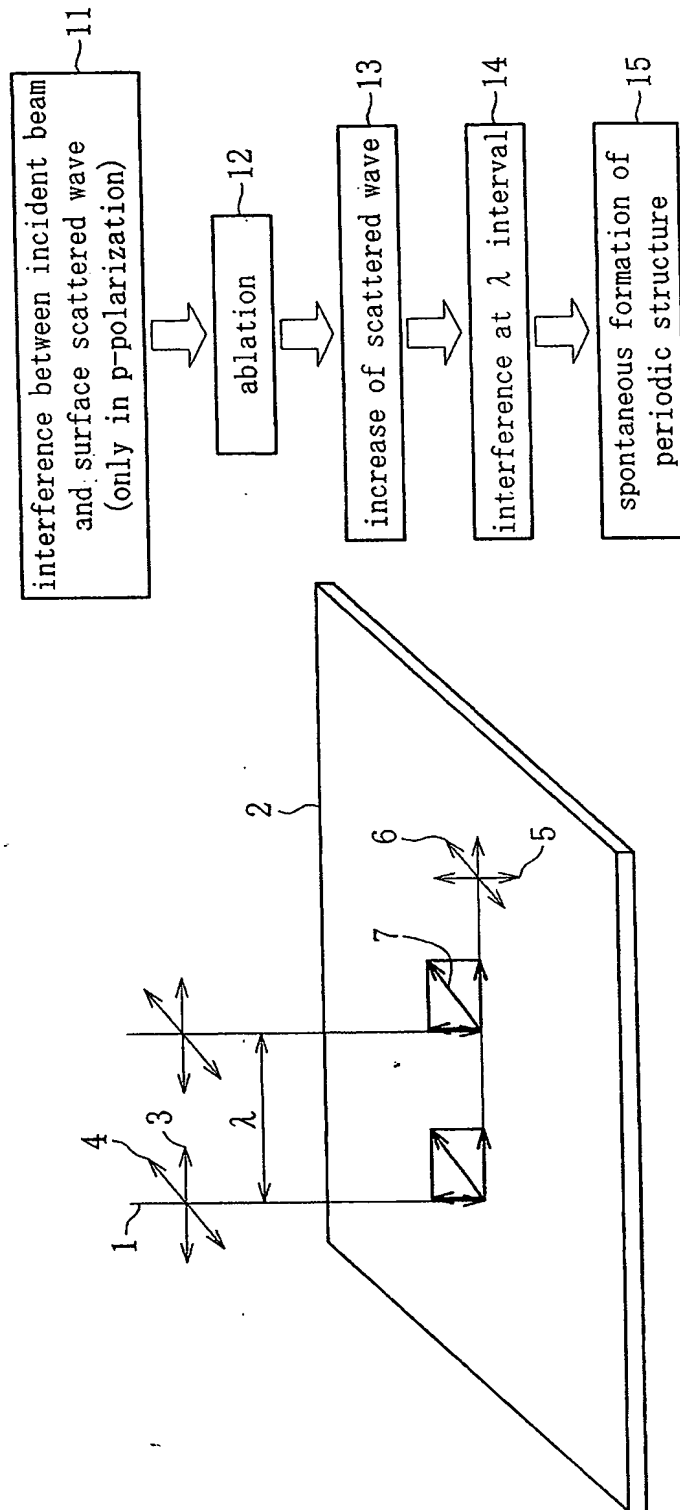
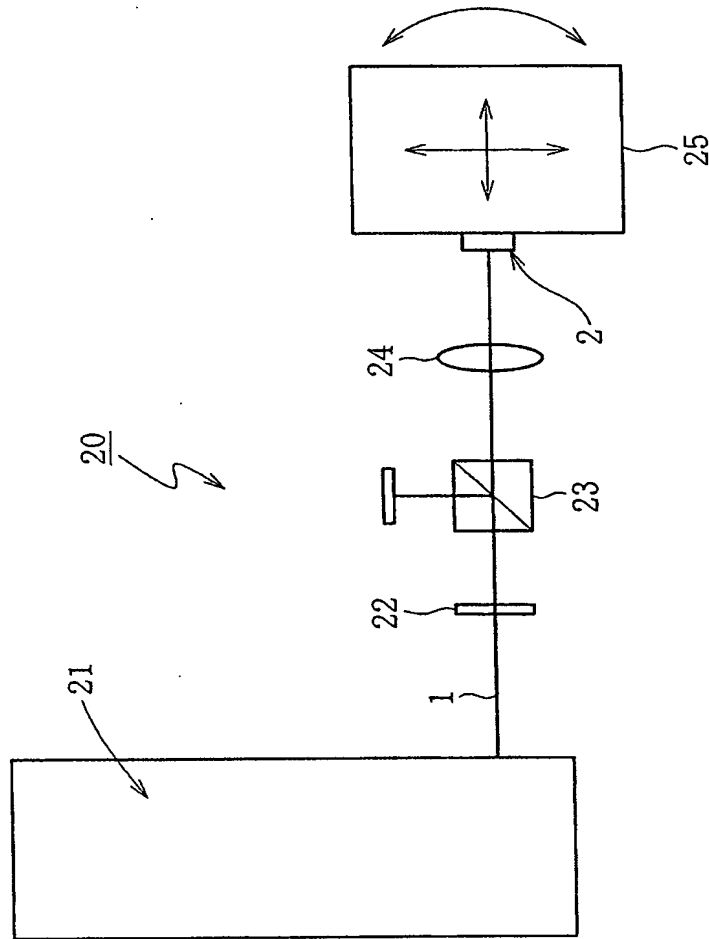


Fig. 2



Periodic structure formation conditions

Pulse width: 120 fs
 Center wavelength: 800 nm
 Repetition frequency: 1 kHz
 Pulse energy: 0.25 to 400 μ J/pulse
 Scanning speed: 0.1 to 0.25 mm/s
 Lens focal length: F=100 mm
 Incident angle: 0, 15, 30, 45 degrees

Specimen

Silicon (50 μ m in thickness)
 Copper tape (50 μ m in thickness)
 Aluminum tape (50 μ m in thickness)

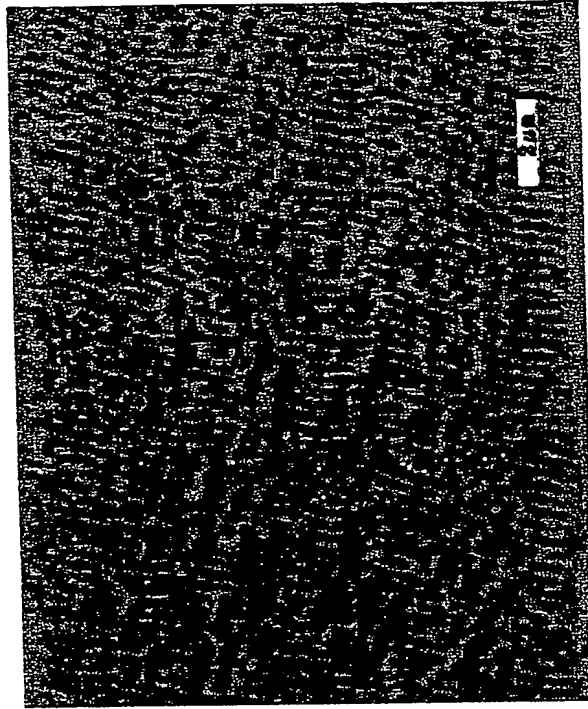


Fig. 3(b)

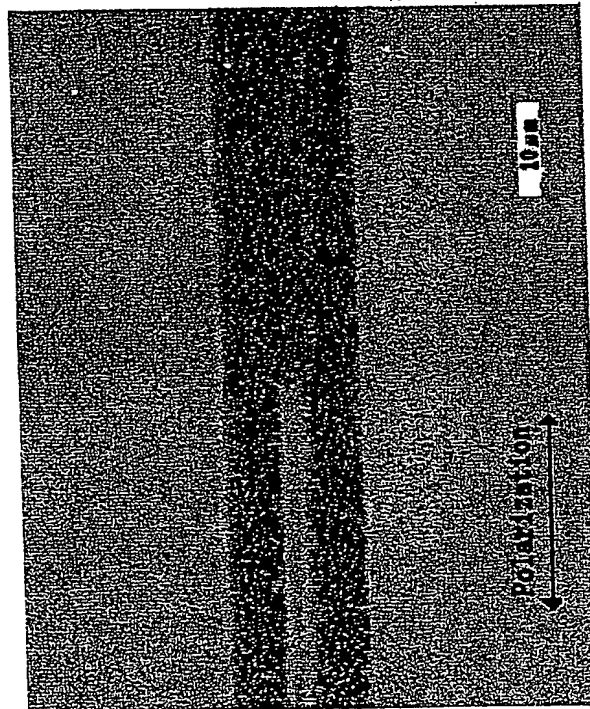


Fig. 3(a)

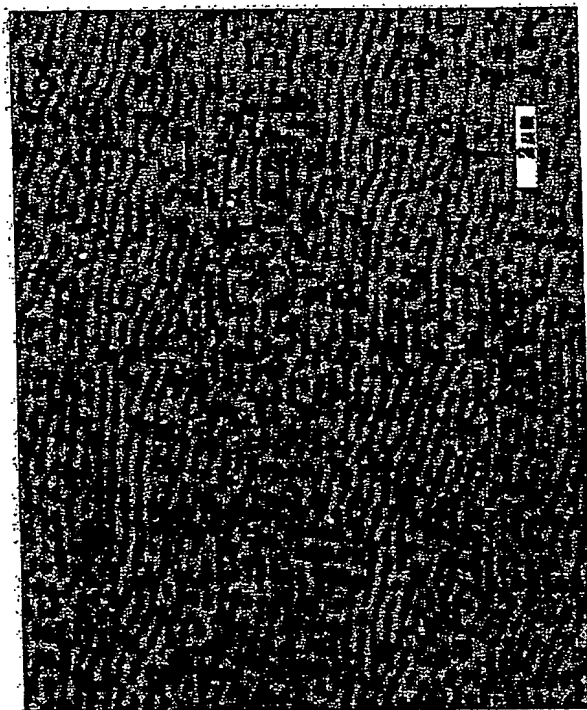


Fig. 4(b)

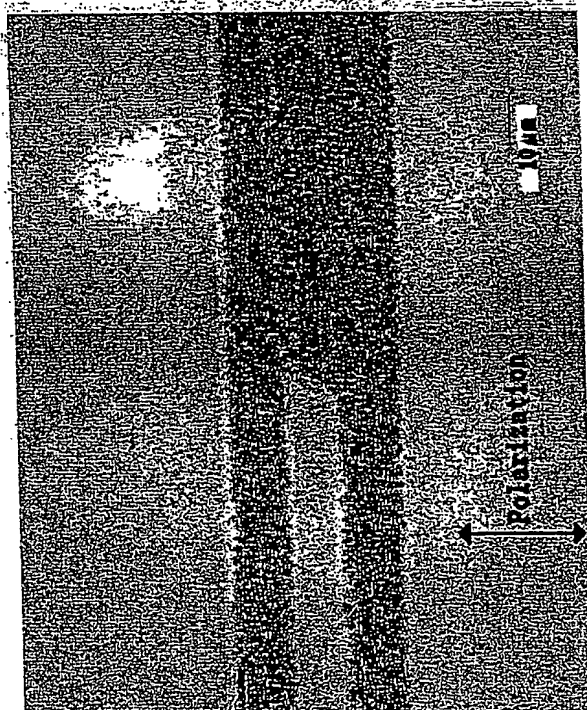


Fig. 4(a)

Fig. 5

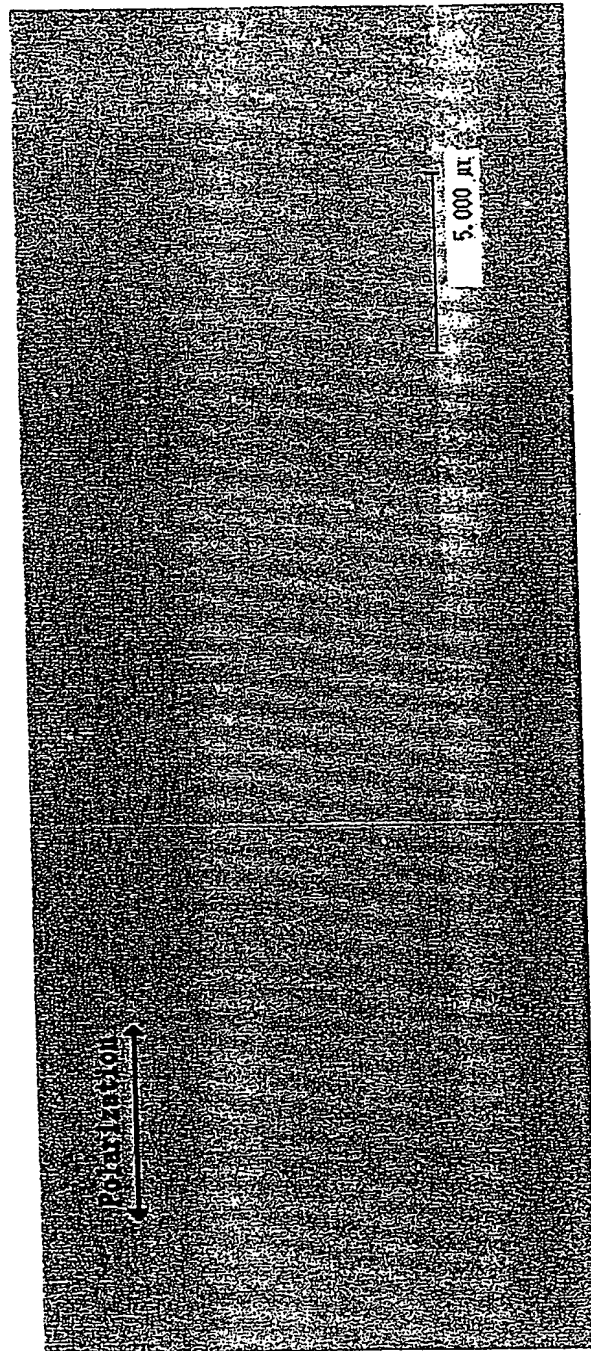


Fig. 6

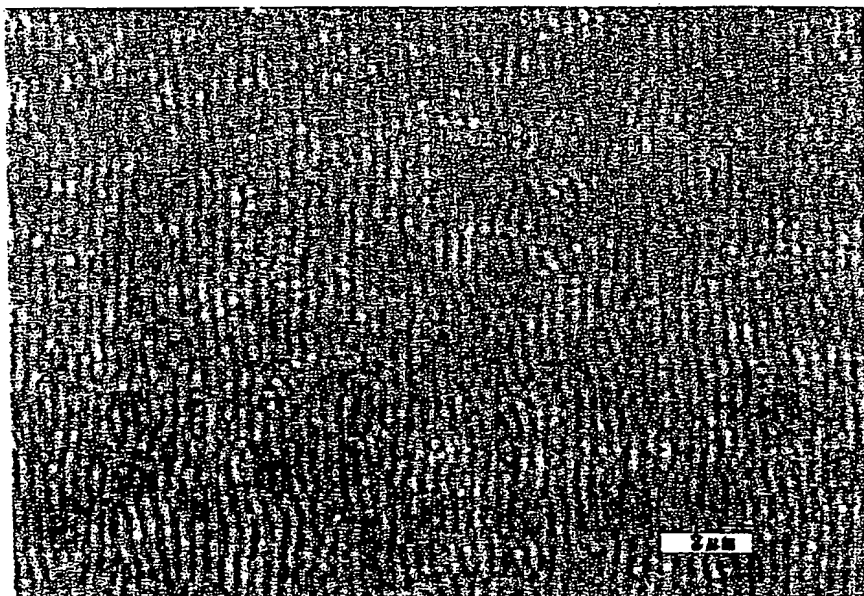
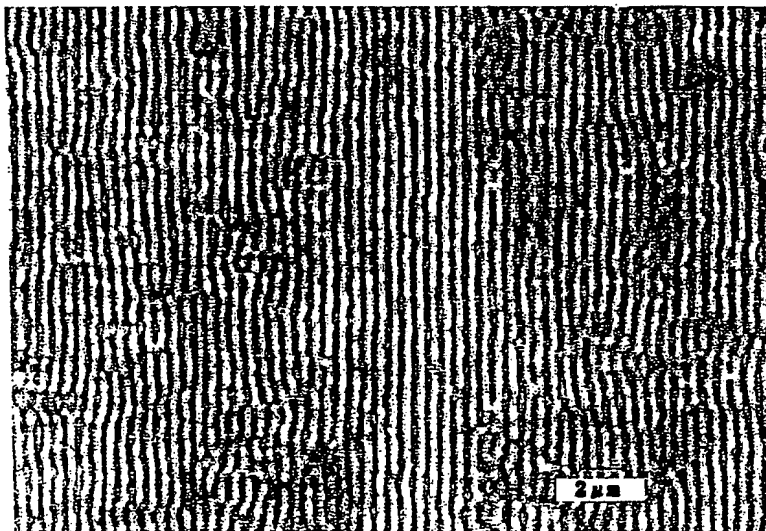


Fig. 7



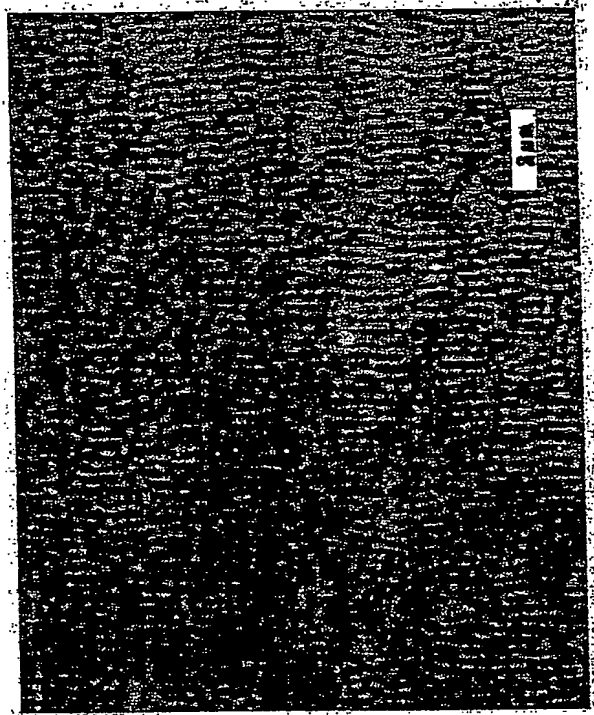


Fig. 8(b)

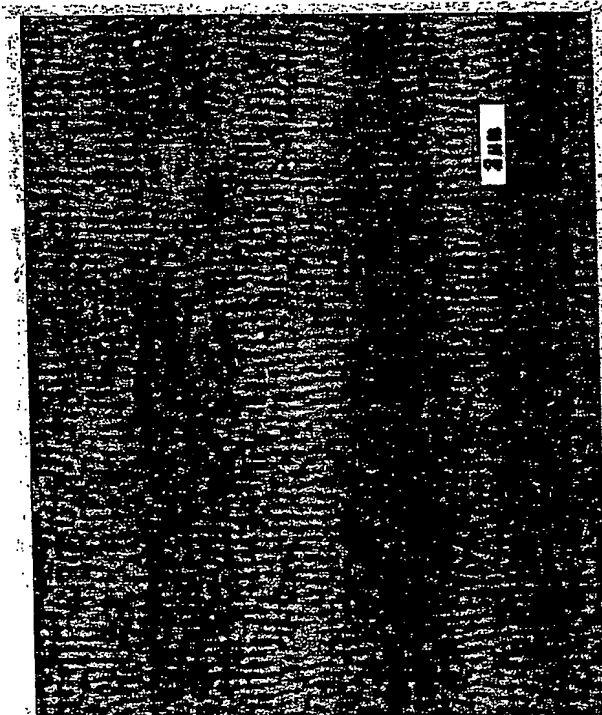


Fig. 8(a)

Fig. 9(a)

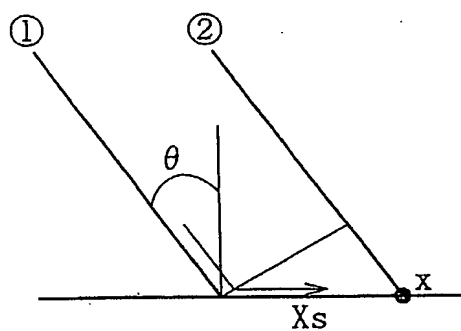


Fig. 9(b)

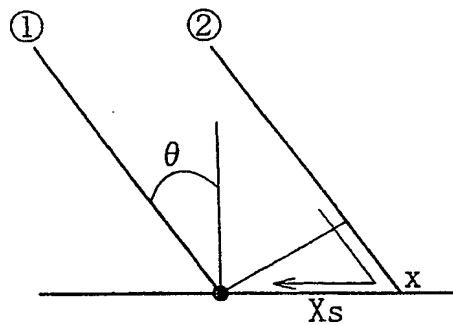
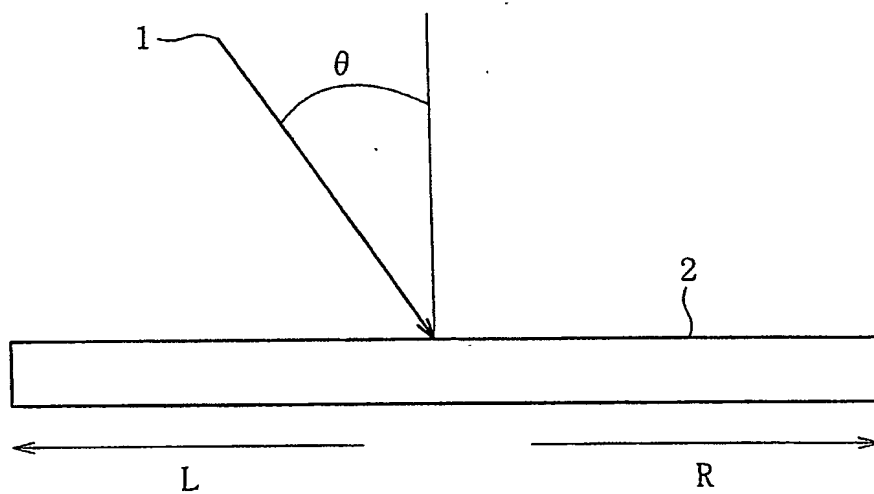


Fig. 10



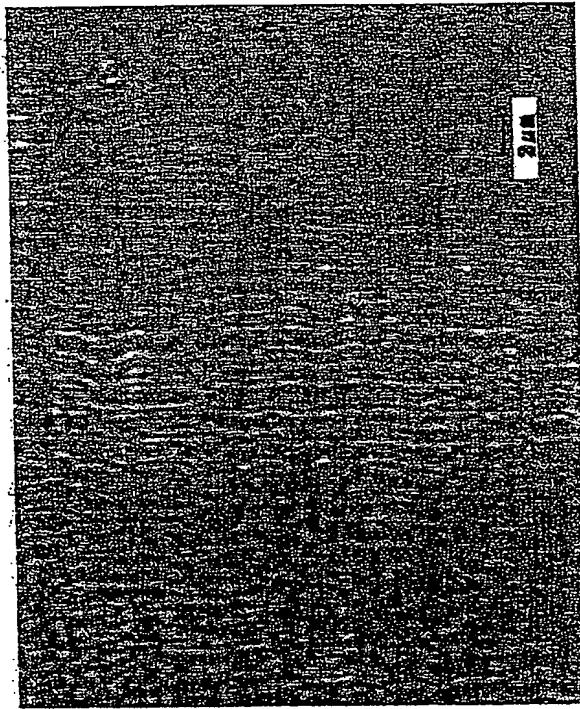


Fig. 11(b)

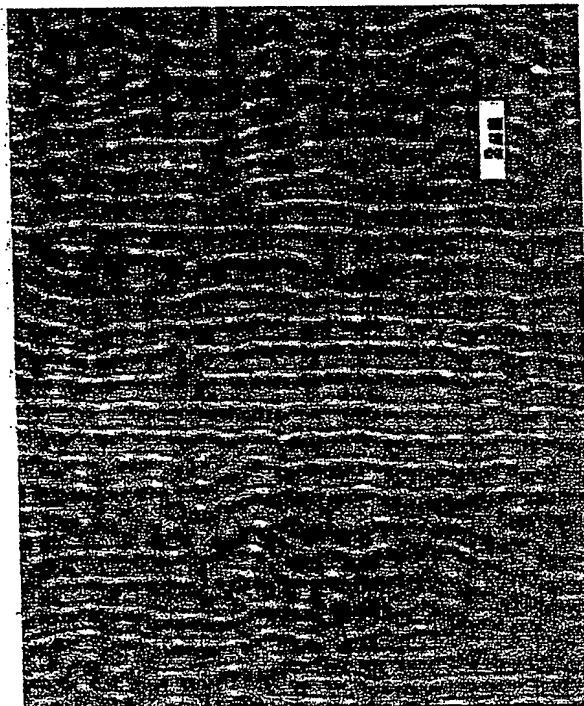


Fig. 11(a)

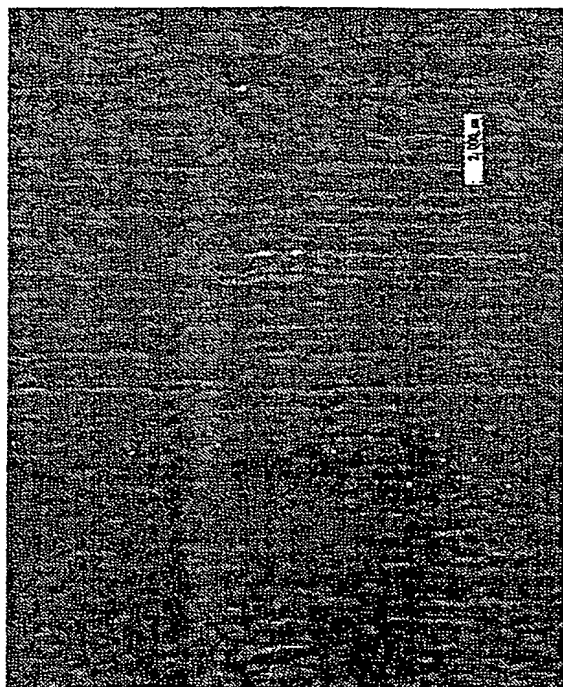


Fig. 12(b)

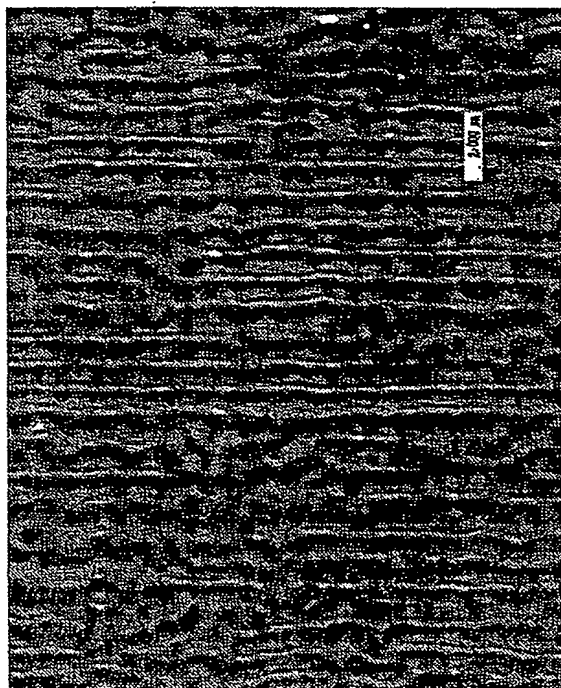


Fig. 12(a)

Fig. 13

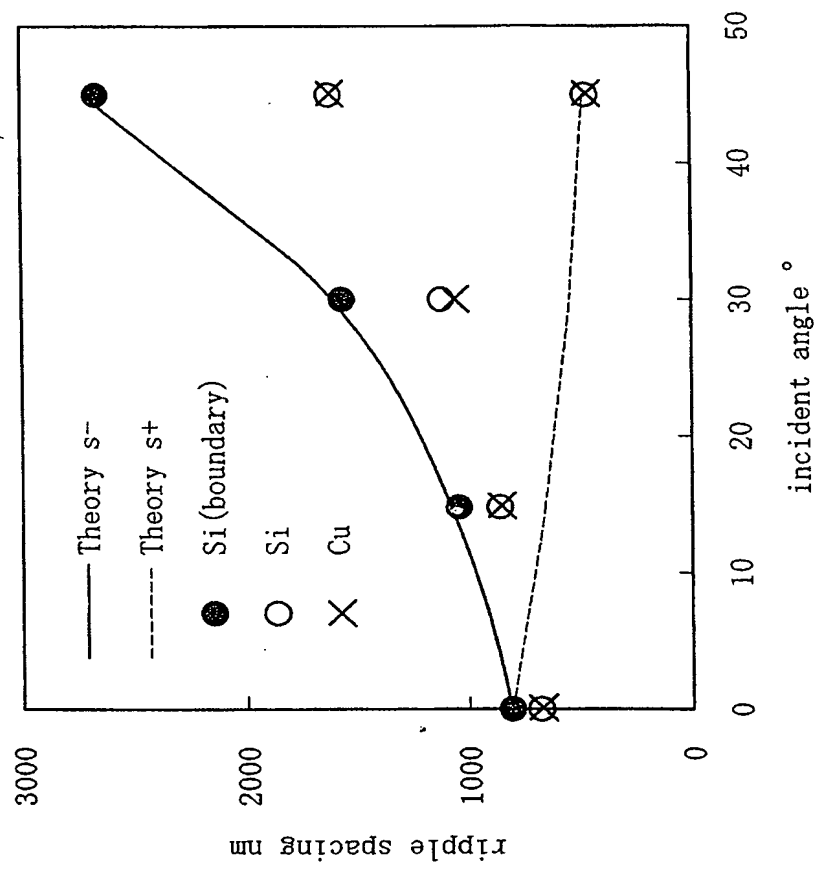


Fig. 14(b)

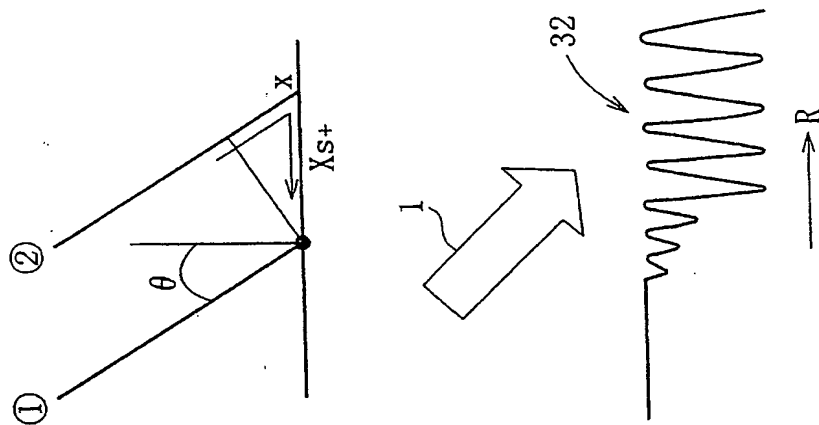


Fig. 14(a)

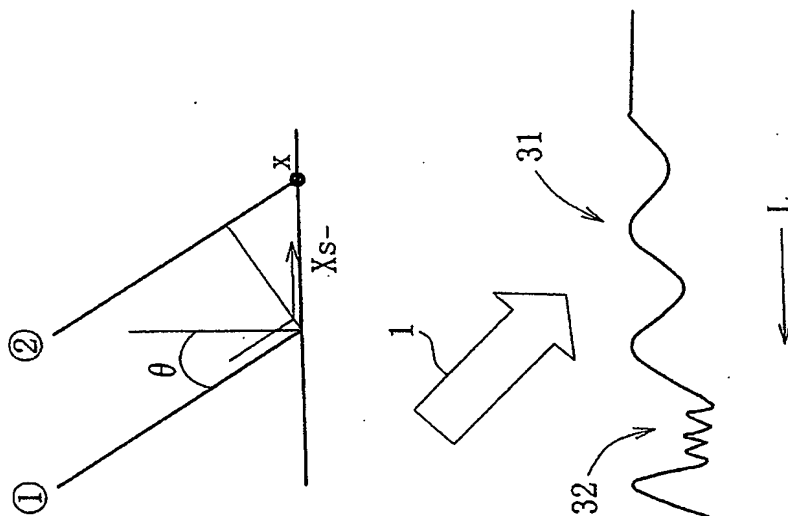


Fig. 15(a)

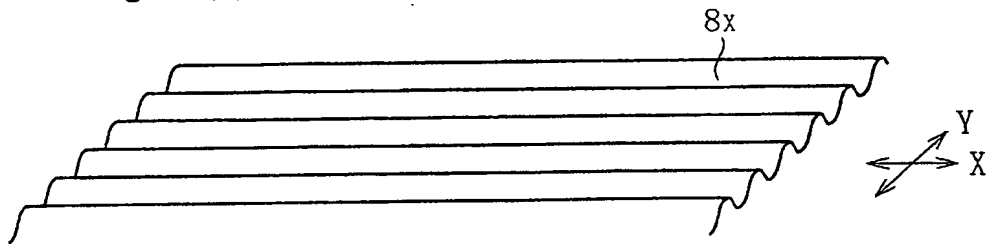


Fig. 15(b)

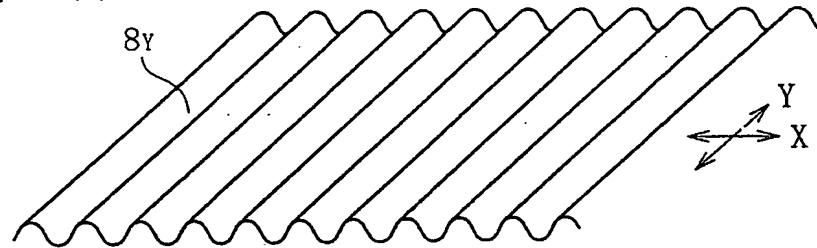


Fig. 15(c)

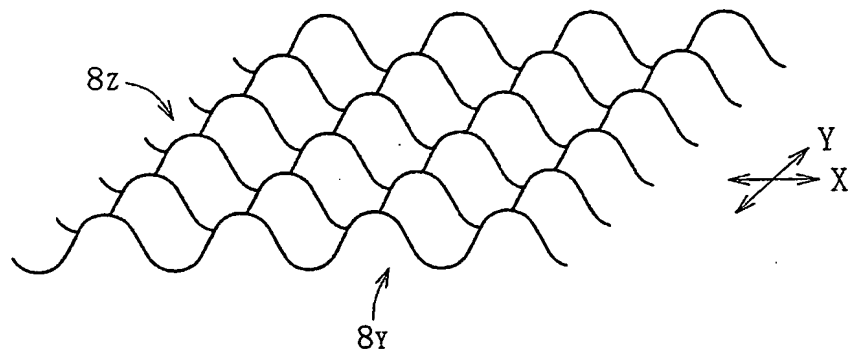


Fig. 15(d)

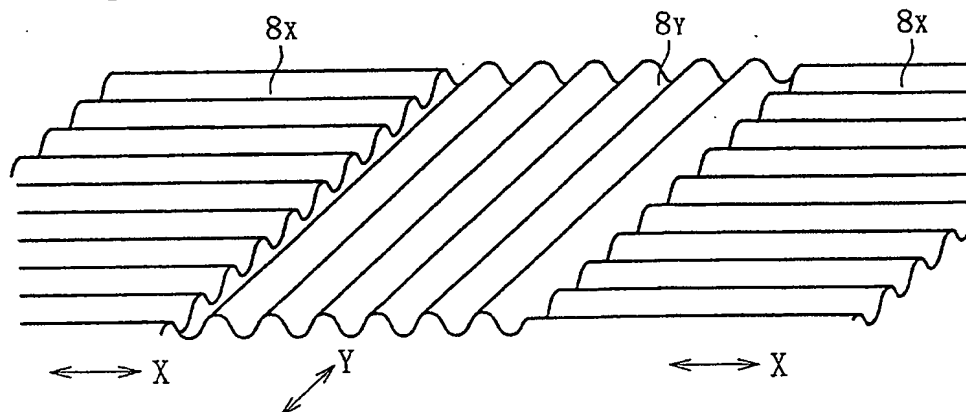


Fig. 16

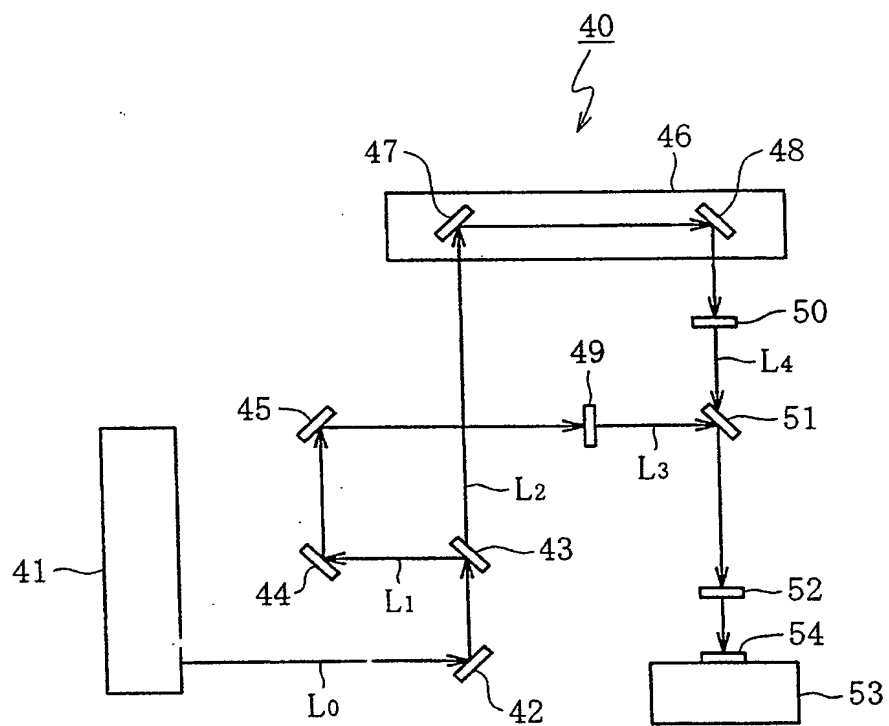


Fig. 17

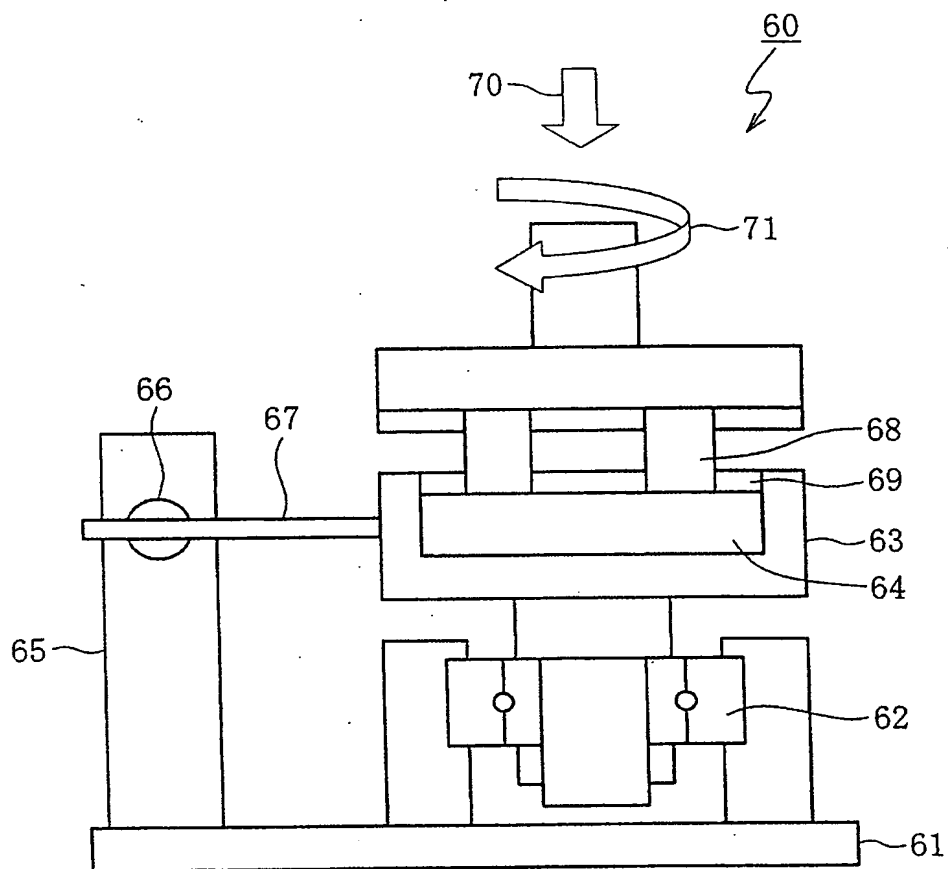


FIG. 18(a)

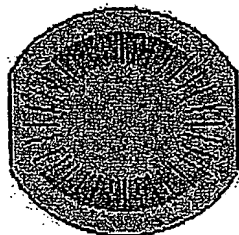


FIG. 18(b)

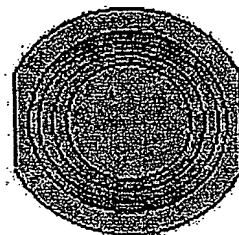


FIG. 18(c)

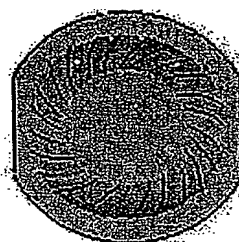


FIG. 18(d)

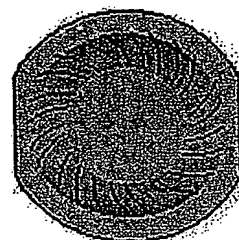


FIG. 19

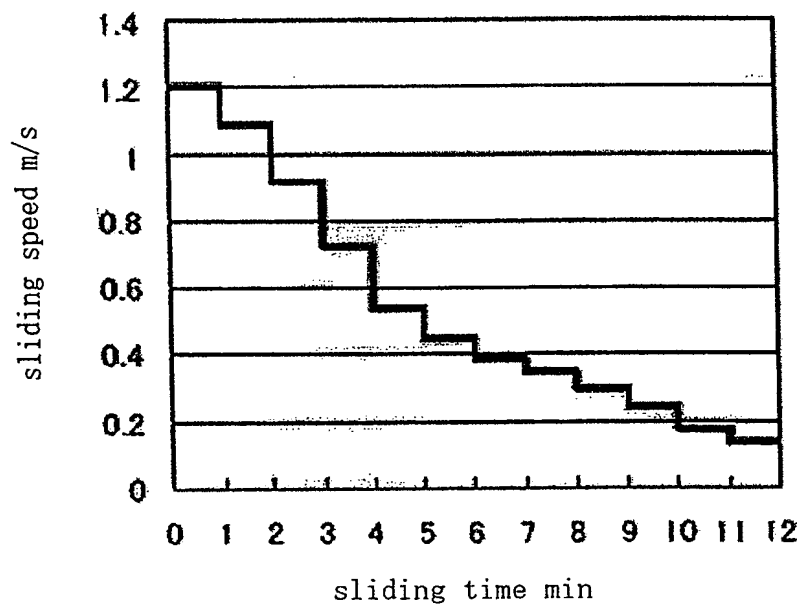


FIG. 20(b)

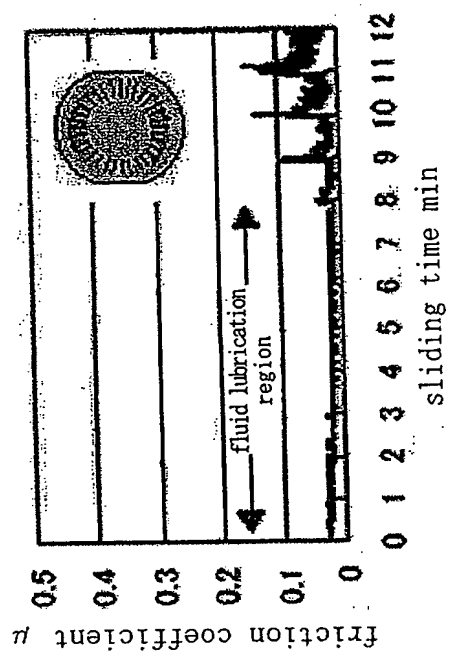


FIG. 20(d)

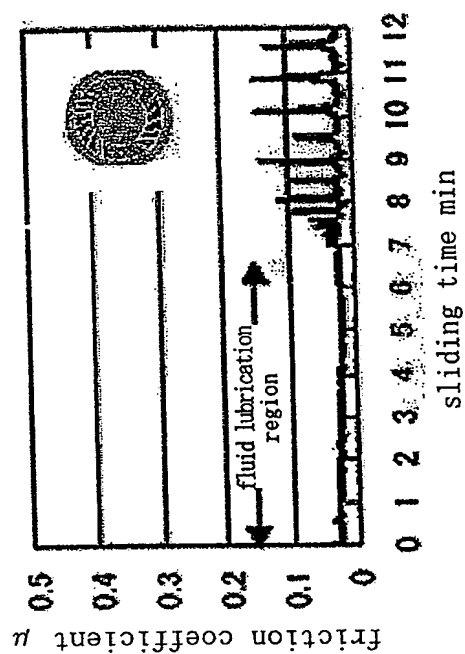


FIG. 20(a)

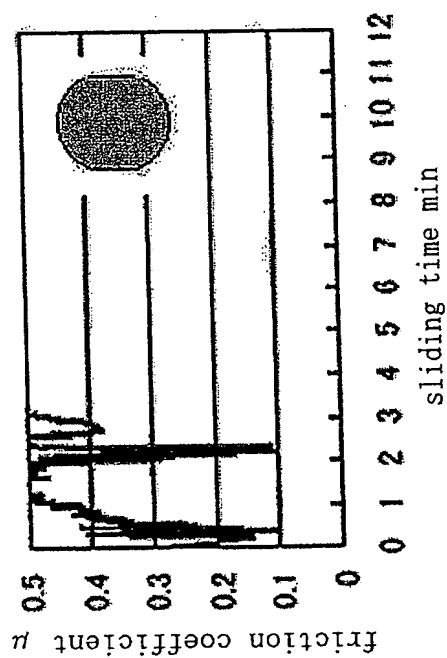


FIG. 20(c)

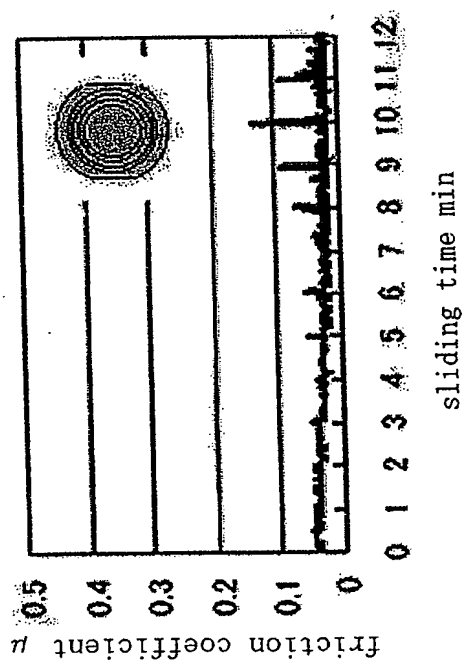


Fig. 21(a)

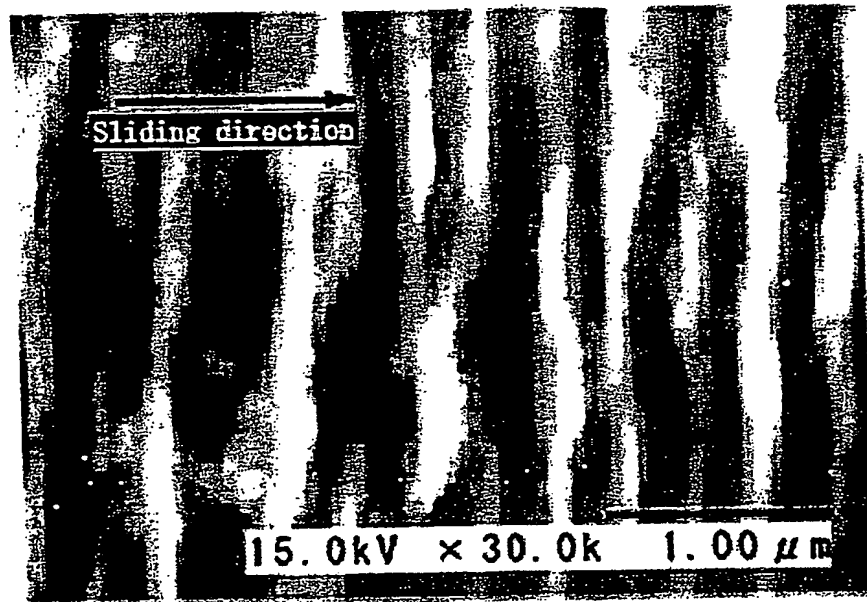


Fig. 21(b)

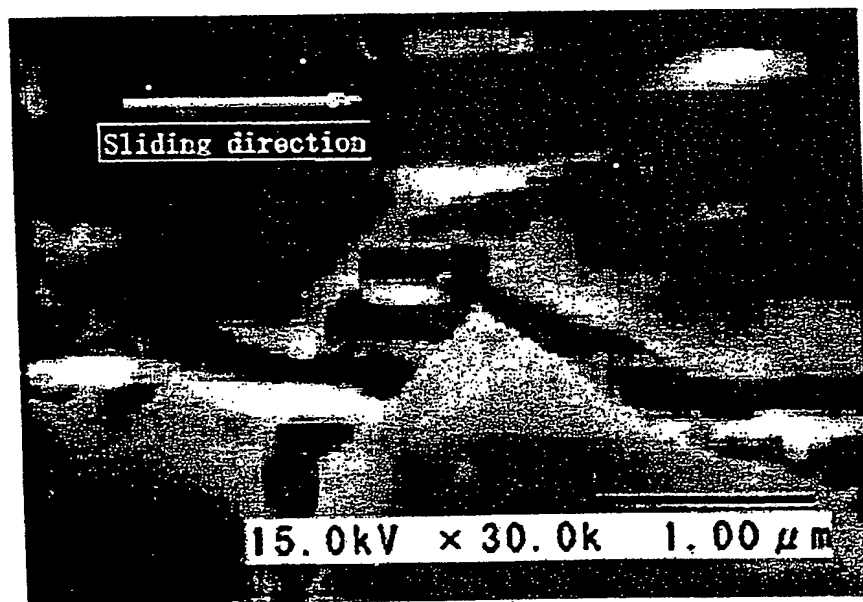


Fig. 22(a)

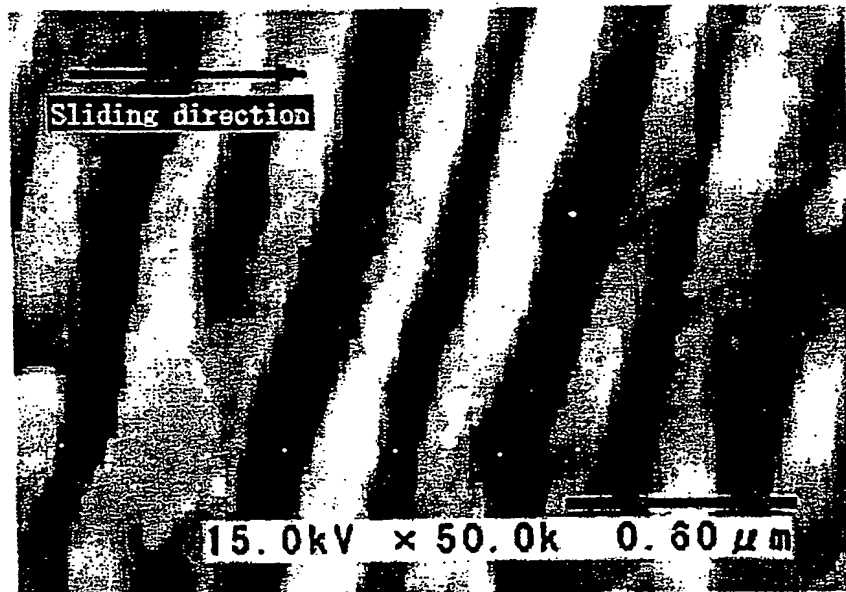


Fig. 22(b)

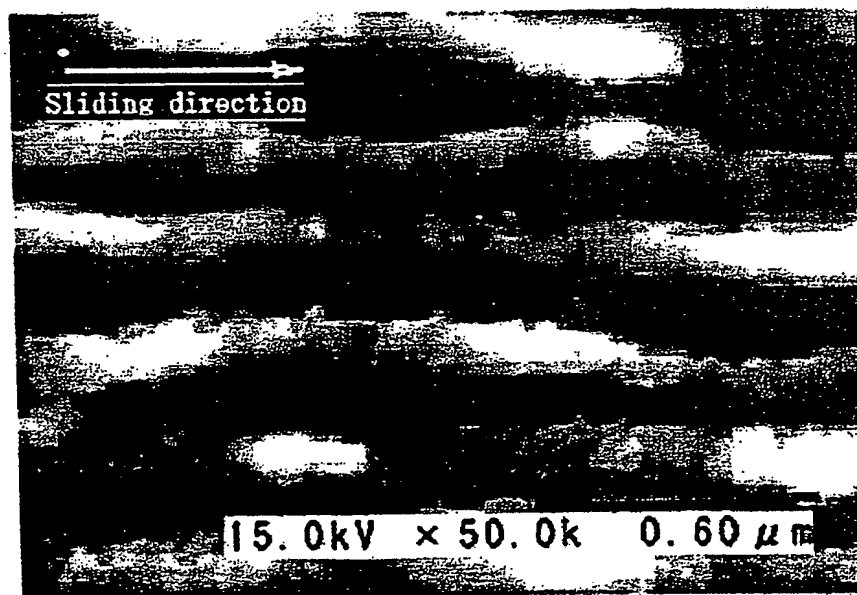


FIG. 23(a)

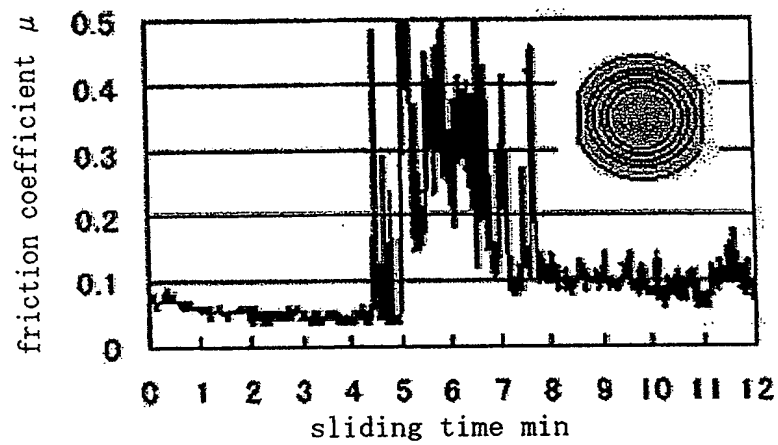


FIG. 23(b)

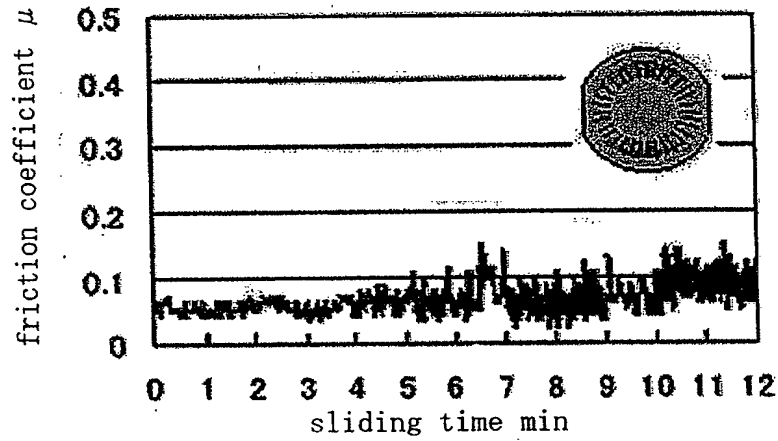
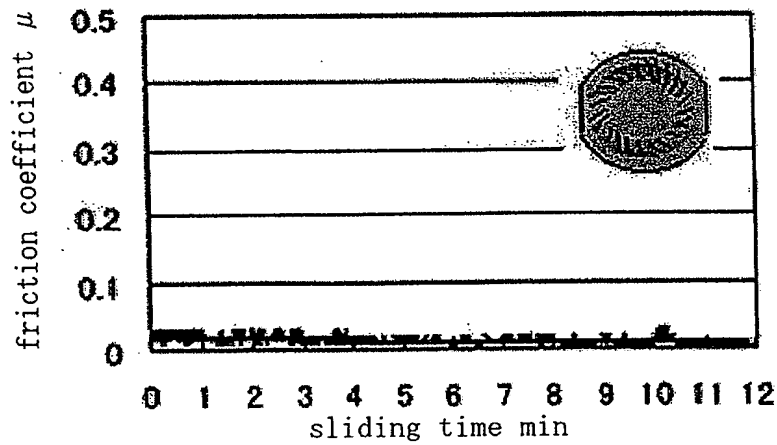


FIG. 23(c)



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